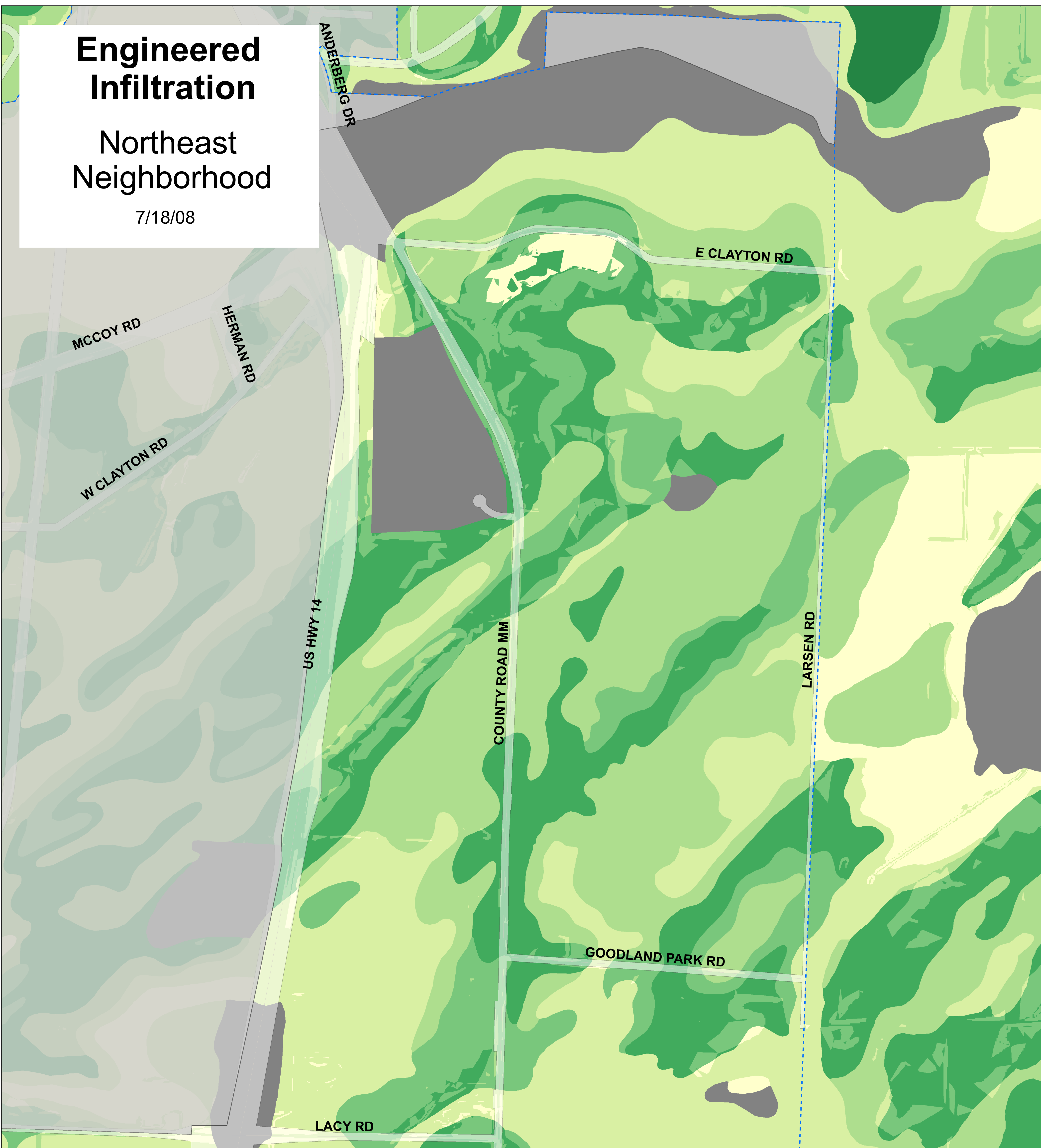


Engineered Infiltration

Northeast Neighborhood

7/18/08



Engineered Infiltration Rate

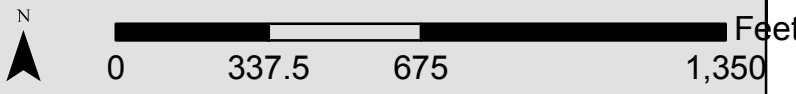
- High
- Medium
- Low
- Undetermined -- Highly Variable

- Urban Fitchburg
- City Limits
- Right of Way

This map represents enhanced infiltration that could result from engineering practices. Permeability is scored based on the permeability of the soil layer below the depth of five feet. This assumes aggressive practices to replace shallower, less permeable soils layers with more permable (i.e., engineered) soils to a depth of five feet. Infiltration scores range from 0 (low permeability) to 10 (high permeability) and scores 13 and over were considered undetermined.

The data was derived from NRCS soil information using relative cumulative scores based on soil permeability, depth to water table, depth to bedrock, and slope (Table 1). Depth to bedrock and slope were considered less important and weighted accordingly. (Capital Area Regional Planning Commission).

Table 1 Infiltration Rating Factors		
Criterion	Criterion Groups	Score
Permeability	0.06 to 0.15 in./hr.	0
	0.15 to 0.6	1
	0.6 to 2.0	2
	2.0 to 6.0	3
	6+	4
	Highly Variable	13
Depth to Water Table	0 – 3 ft.	1
	3 – 5	2
	5+	3
Depth to Bedrock	0 – 3 ft.	0.5
	3 – 5	1.0
	5+	1.5
Slope	8+ percent	0.5
	4 to 8	1.0
	0 to 4	1.5



Data Sources:
Dane County LIO,
DCRPC,
Fitchburg Planning Dept.

Fitchburg Planning Department
July 18, 2008